



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

August 8, 2005

DONALD J. LEWIS, JOHN D. RUSSELL  
JOHN O. MICHELINI and MICHAEL J. CULLEN

Serial No. : 10/805,612 Group Art Unit: 3747  
Filed : March 19, 2004 Examiner: Hai Huynh  
For : IMPROVING ELECTROMECHANICAL VALVE OPERATING  
CONDITION BY A CONTROL METHOD

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.56, 1.97, 1.98**

Sir:

In compliance with the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97, and 1.98, the following patents, publications, applications, and/or other information are being submitted and disclosed to the Office, including those listed on the enclosed Form PTO-1449, for consideration by the Examiner.

Applicants respectfully request that the disclosed information be made of record and expressly considered by the Examiner during examination of the pending application. Further, Applicants respectfully request that the disclosed items be listed on the face of any patent issuing from the pending application in the "references cited" column.

In accordance with 37 C.F.R. § 1.97 (g), the present information disclosure statement is not a representation that a search has been made.

In accordance with 37 C.F.R. § 1.97 (h), the present information disclosure statement is not an admission that the information cited in the statement is, or is considered to be, material to patentability.

In accordance with MPEP § 609, Applicants respectfully request that if the present application is a continuing application, all information considered by the Office in the parent application be considered in the present application, although it need not be listed on the face of the patent unless resubmitted in this or another information disclosure statement filed in this application.

Finally, the present information disclosure statement is not an admission that the information

cited in the statement is, or is considered to be, prior art.

**BASIS FOR CONSIDERATION BY THE OFFICE UNDER 37 C.F.R. § 1.97**

☒ 37 C.F.R. § 1.97(b)

The present information disclosure statement is being filed, to the best of Applicants' knowledge and belief:

- (1) within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53(d); or
- (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or
- (3) before the mailing of a first Office action on the merits; or
- (4) before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.

**CONTENT OF INFORMATION DISCLOSURE STATEMENT 37 C.F.R. § 1.98**

The present information disclosure statement includes any information noted above, along with a Form PTO-1449 (4 pages).

If applicable, a legible copy of the following is being included:

- (1) Each publication (identified by published, author (if any), title, relevant pages of the publication, date, and place of publication).


If there are any questions regarding this submission, please contact the undersigned.

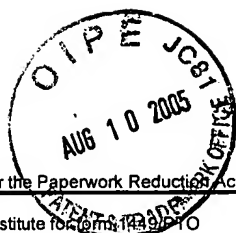
**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being sent via first class mail addressed to Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on August 8, 2005.

  
Lauren Barberena

Respectfully submitted,  
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Substitute for form 1449, PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/805,612
Filing Date	March 19, 2004
First Named Inventor	Donald J. Lewis
Art Unit	3747
Examiner Name	Hai Huynh
Attorney Docket Number	81100232

Sheet 1 of 4

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 3828247	08-06-1974	Kirsch et al.	
		US- 3865088	02-11-1975	Links	
		US- 4009695	03-01-1977	Ule	
		US- 4990854	02-05-1991	Friz	
		US- 5117790	06-02-1992	Clarke et al.	
		US- 5408958	04-25-1995	Esch et al.	
		US- 5442515	08-15-1995	Wallaert	
		US- 5596956	01-28-1997	Ogawa et al.	
		US- 5636601	06-10-1997	Moriya et al.	
		US- 5930992	08-03-1999	Esch et al.	
		US- 5934231	08-10-1999	Schmitz et al.	
		US- 5957095	09-28-1999	Kako	
		US- 5992153	11-30-1999	Tsuchihashi et al.	
		US- 6050231	04-18-2000	Tisch et al.	
		US- 6062186	05-16-2000	Barnes et al.	
		US- 6109225	08-29-2000	Ogita et al.	
		US- 6216652	04-17-2001	Gramann et al.	
		US- 6332445	12-25-2001	Voss et al.	
		US- 6333843	12-25-2001	Boie et al.	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 6367437	04-09-2002	Nakamura et al.	
		US- 6390038	05-21-2002	Di Lieto et al.	
		US- 6397813	06-04-2002	Han et al.	
		US- 6401684	06-11-2002	Hori et al.	
		US- 6422185	07-23-2002	Duesmann et al.	
		US- 6460500	10-08-2002	Ooyama et al.	
		US- 6550240	04-22-2003	Kolmanovsky et al.	
		US- 6619245	09-16-2003	Fujiwara et al.	
		US- 6637386	10-28-2003	Murata et al.	
		US- 6681173	01-20-2004	Turner et al.	
		US- 6718928	04-13-2004	Brueggen et al.	
		US- 6736121	05-18-2004	Gopichandra	
		US- 6763707	07-20-2004	Kumagai et al.	
		US- 6766641	07-27-2004	Surnilla et al.	
		US- 6772723	08-10-2004	Aoki et al.	
		US- 6785603	08-31-2004	Inoue	
		US- 2002/0038541	04-04-2002	Sumilla et al.	
		US- 2002/0157630	10-31-2002	Gerhard et al.	
		US- 2003/0051465	03-20-2003	Kolmanovsky et al.	

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Sheet	3	of	4
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## U. S. PATENT DOCUMENTS

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		Filing Date	March 19, 2004		
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		Art Unit	3747		
		Examiner Name	Hai Huynh		
Sheet	4	of	4	Attorney Docket Number	81100232

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KLUTING, FLIERL, GRUDNO and LUTTERMANN; MTZ Magazine, August 1999, "Drosselfreie Laststeuerung miy vollvariablen Ventiltrieben"	✓

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